



Original block  
of text.

16 → We would like to deter copying of this document  
by embedding an imperceptible watermark that  
identifies the original recipient of the document.  
If an illicit copy is later found, the watermark can  
be read from the document to determine its source.  
At that point appropriate action can be taken to  
to determine how the document was leaked.

← 10

12 → Exaggerated  
shifts in the  
text block of  
~0.07". This is  
10 times what  
a typical value  
would be.

18 → 16 We would like to deter copying of this document  
by embedding an imperceptible watermark that  
identifies the original recipient of the document.  
If an illicit copy is later found, the watermark can  
be read from the document to determine its source.  
At that point appropriate action can be taken to  
to determine how the document was leaked.

unshifted - control line  
shifted right - 1 bit  
shifted left - 0 bit  
shifted left - 0 bit  
shifted right - 1 bit  
shifted left - 0 bit  
unshifted - control line

Typical shifts  
of ~0.007" in  
the text block.

16 → We would like to deter copying of this document  
by embedding an imperceptible watermark that  
identifies the original recipient of the document.  
If an illicit copy is later found, the watermark can  
be read from the document to determine its source.  
At that point appropriate action can be taken to  
18 → to determine how the document was leaked.

← 14

Figure 1

10080567-041002

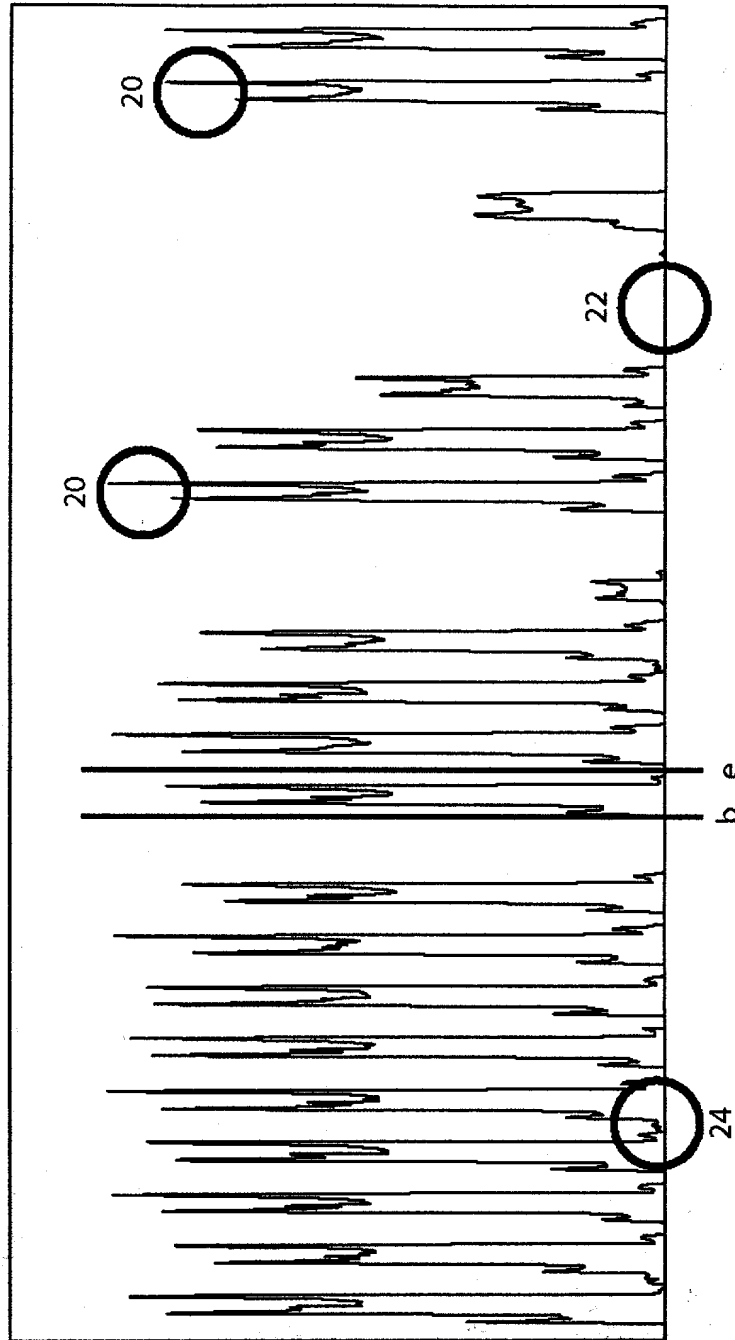


Figure 2

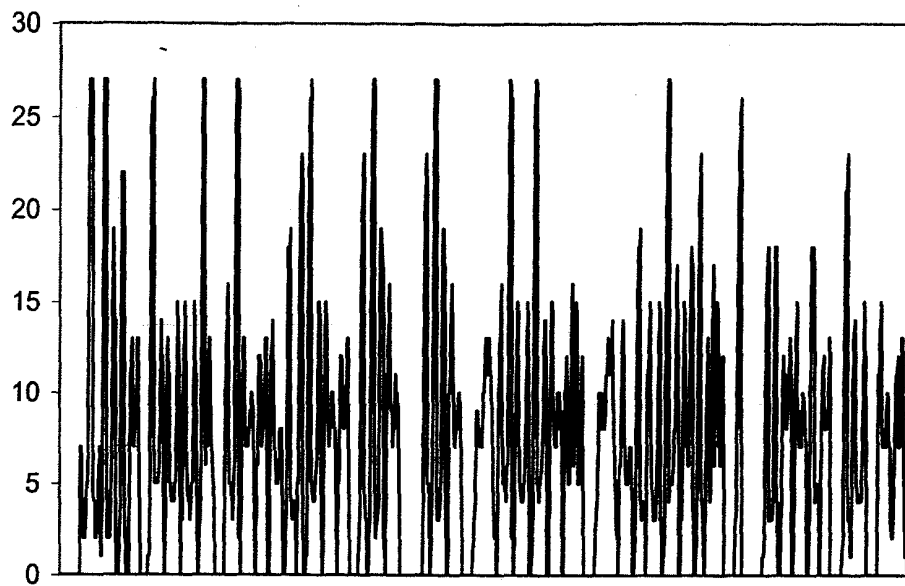


Figure 3

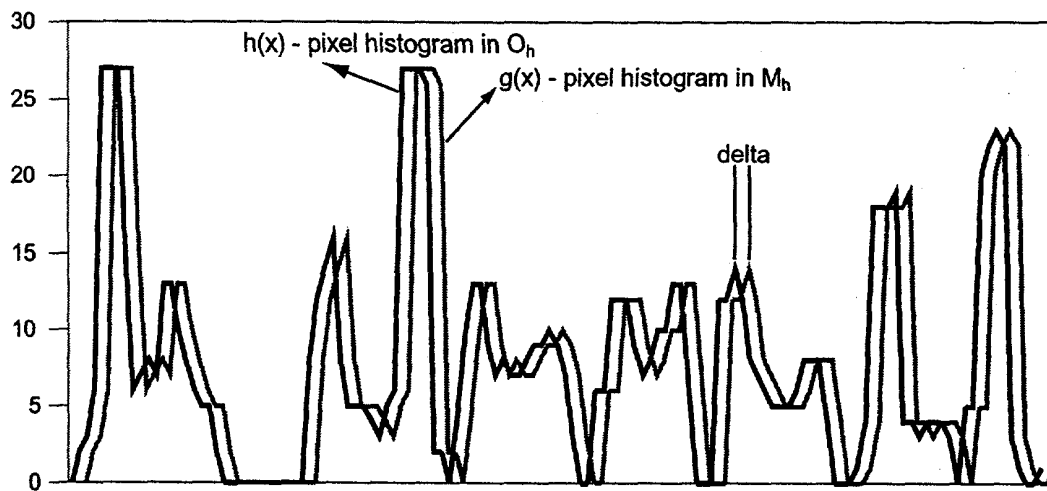


Figure 4

10080567 041003